

Skyrmions in lightly doped cuprates?

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Abstract

We study the stability of skyrmions in anisotropic layered magnets and consider a possible creation of the skyrmions in lightly doped layered cuprates. The picture of thermally excited and induced by the doped quasi-localized holes skyrmions is used to describe magnetic properties and spin kinetics of underdoped cuprates. A consistency of the skyrmion approach and the phase separation phenomenon is discussed. © 2007 Springer-Verlag Berlin Heidelberg.

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Keywords

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